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MODUL 9 TUGAS

1. Table

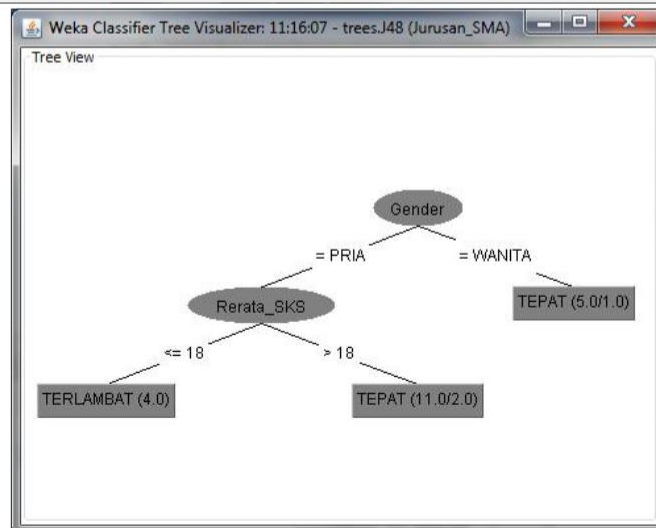
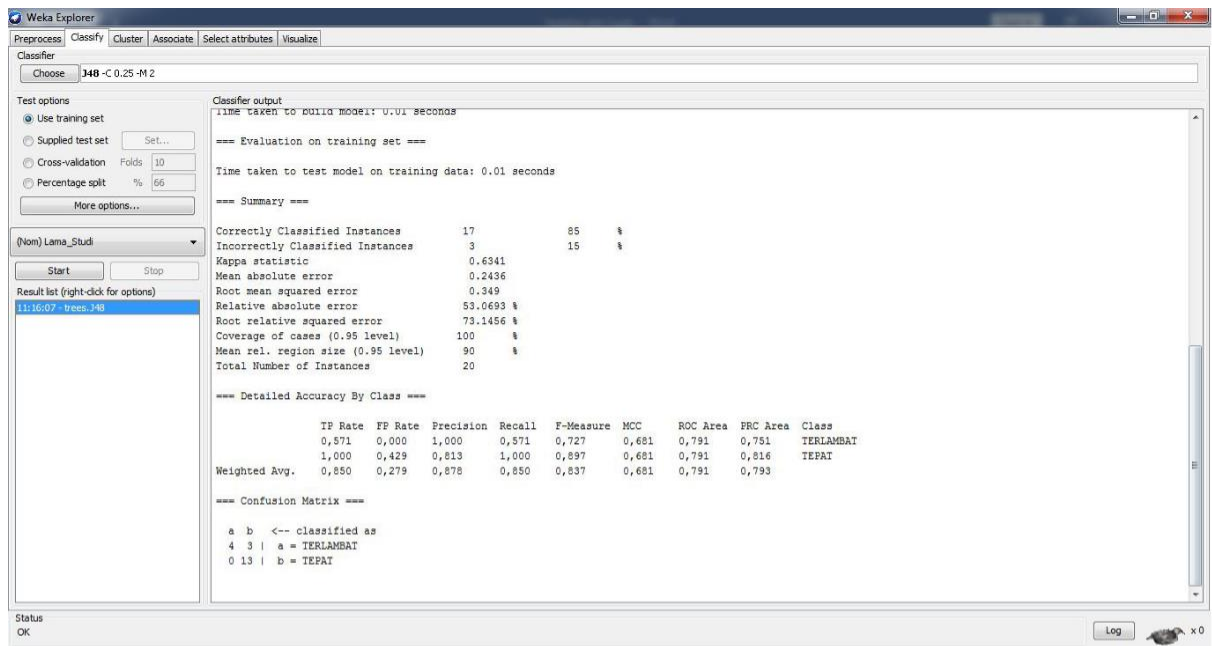
Cuaca	Suhu	Kelembaban_udara	Berangin	Bermain_Tenis
Cerah	75	65	TIDAK	YA
Cerah	80	68	YA	YA
Cerah	83	87	YA	TIDAK
Mendung	70	96	TIDAK	YA
Mendung	68	81	TIDAK	YA
Hujan	65	75	TIDAK	YA
Hujan	64	85	YA	TIDAK

2. Weka

a. Tree

The screenshot displays the Weka Explorer interface. The 'Classifier' tab is active, showing the 'J48 -C 0.25 -M 2' model. The 'Test options' section on the left is configured with 'Use training set' selected, 'Folds' set to 10, and 'Percentage split' set to 66. The 'Result list' on the left shows the selected model. The 'Classifier output' pane on the right displays the following information:

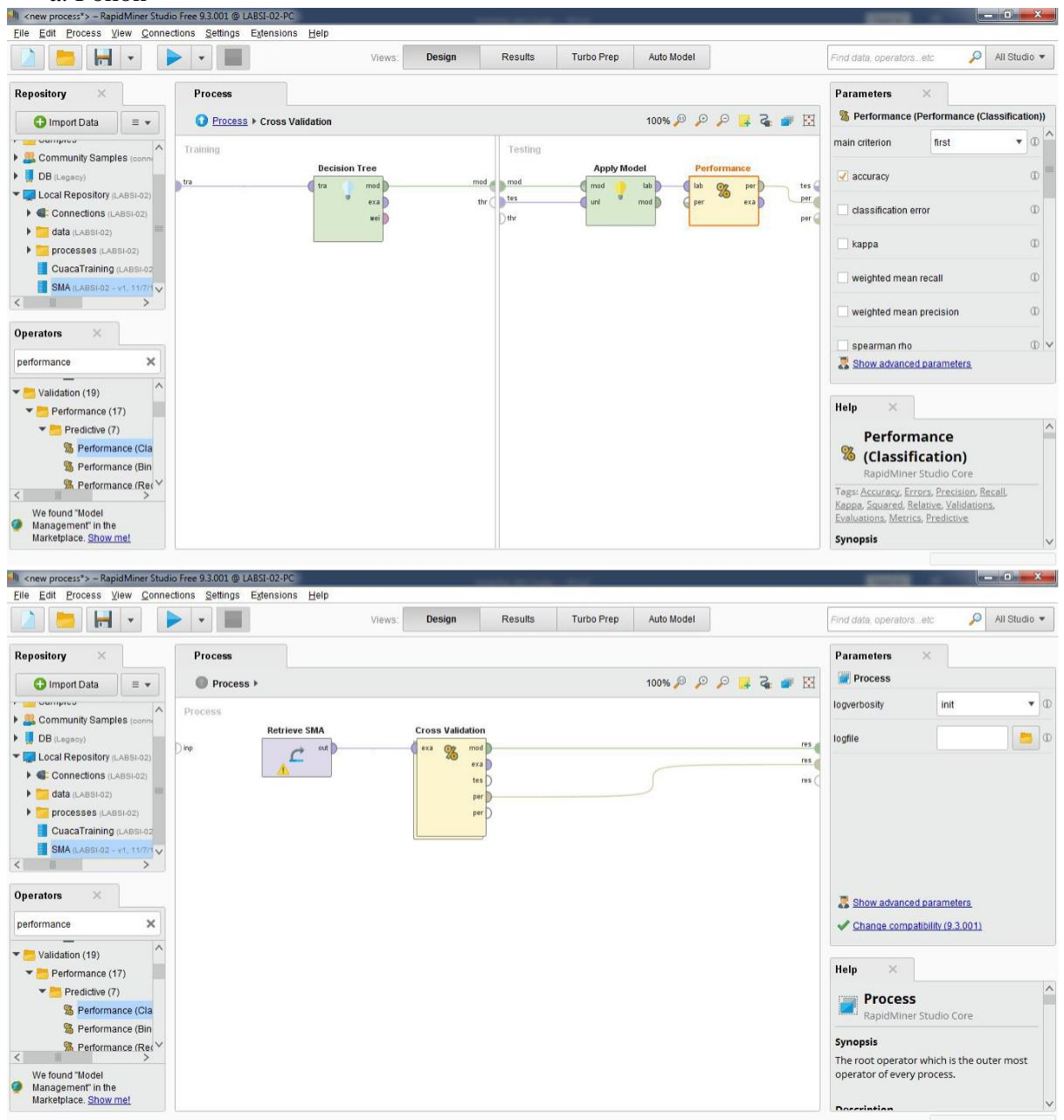
```
=== Run information ===  
  
Scheme:      weka.classifiers.trees.J48 -C 0.25 -M 2  
Relation:     Jurusan_SMA  
Instances:    20  
Attributes:    6  
               Jurusan_SMA  
               Gender  
               Asal_Sekolah  
               Rerata_SKS  
               Asisten  
               Lama_Studi  
  
Test mode:    evaluate on training data  
  
=== Classifier model (full training set) ===  
  
J48 pruned tree  
-----  
  
Gender = PRIA  
| Rerata_SKS <= 18: TERLAMBAT (4.0)  
| Rerata_SKS > 18: TEPAT (11.0/2.0)  
Gender = WANITA: TEPAT (5.0/1.0)  
  
Number of Leaves :    3  
Size of the tree :    5  
  
Time taken to build model: 0.01 seconds  
  
=== Evaluation on training set ===
```



- b. Carilah nilai-nilai parameter berikut:
- Jumlah simpul daun pada pohon keputusan = **3**
 - Jumlah simpul keseluruhan pada pohon keputusan = **5**
 - Waktu yang dibutuhkan untuk proses pelatihan = **0.01** detik
 - Tingkat ketepatan klasifikasi = **85 %**
 - Tingkat ketidaktepatan klasifikasi = **15 %**

3. RapidMiner

a. Pohon



<new process> - RapidMiner Studio Free 9.3.001 @ LABSI-02-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/SMA) ExampleSet (/Local Repository/CuacaTraining)

Result History

Criterion accuracy

Performance

Description

Annotations

Table View Plot View

accuracy: 60.00% +/- 21.08% (micro average: 60.00%)

	true TERLAMBAT	true TEPAT	class precision
pred. TERLAMBAT	4	5	44.44%
pred. TEPAT	3	8	72.73%
class recall	57.14%	61.54%	

Repository

Import Data

- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-02)
 - Connections (LABSI-02)
 - data (LABSI-02)
 - processes (LABSI-02)
 - CuacaTraining (LABSI-02 - v1, 11/7/19 10:44 AM - 5)
 - SMA (LABSI-02 - v1, 11/7/19 11:24 AM - 659 bytes)

<new process> - RapidMiner Studio Free 9.3.001 @ LABSI-02-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/SMA) ExampleSet (/Local Repository/CuacaTraining)

Result History

Zoom

Tree

Node Labels

Edge Labels

Graph

Description

Annotations

Tree (Decision Tree)

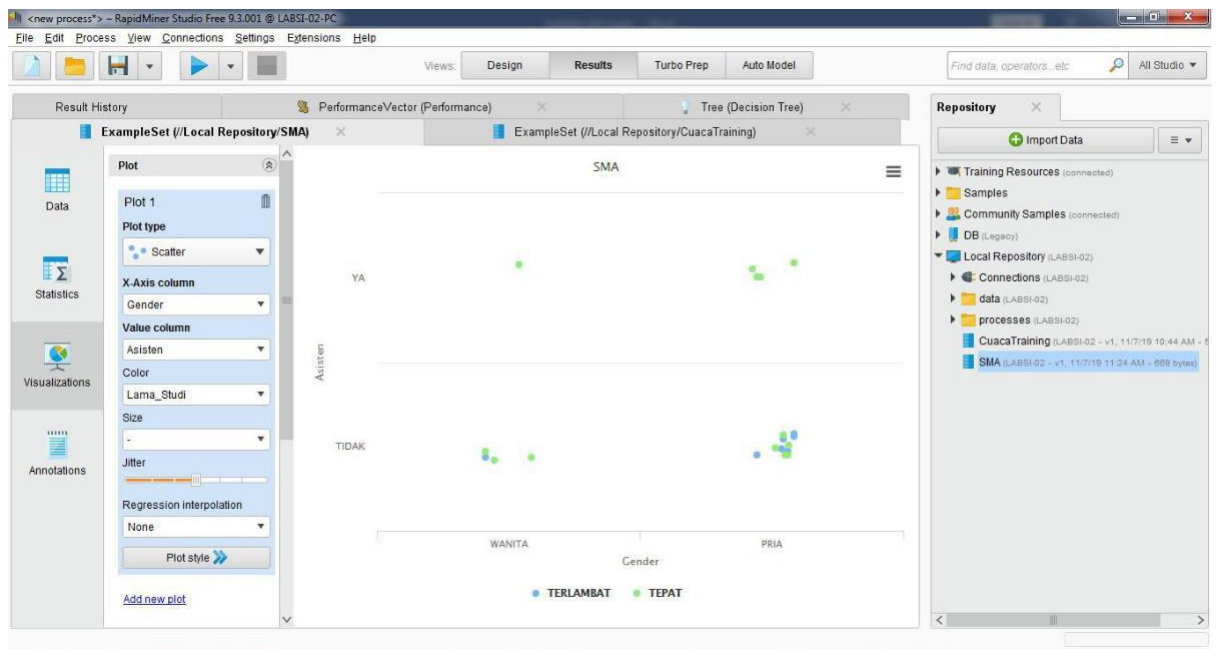
```
graph TD
    Asisten -- TIDAK --> Rerata_SKS
    Asisten -- YA --> TEPAT
    Rerata_SKS -- "> 18.500" --> TEPAT
    Rerata_SKS -- "<= 18.500" --> Gender
    Gender -- PRIA --> TERLAMBAT
    Gender -- WANITA --> TEPAT
```

Repository

Import Data

- Training Resources (connected)
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- DB (Legacy)
- Local Repository (LABSI-02)
 - Connections (LABSI-02)
 - data (LABSI-02)
 - processes (LABSI-02)
 - CuacaTraining (LABSI-02 - v1, 11/7/19 10:44 AM - 5)
 - SMA (LABSI-02 - v1, 11/7/19 11:24 AM - 659 bytes)

b. Plot View



4. Klasifikasi yang terbentuk yaitu :

- i. Seseorang akan lama_studi (TERLAMBAT) jika kondisi sebagai berikut:
Gender = PRIA, $Rerata_SKS \leq 18$ (nilai atribut lain diabaikan)
- ii. Seseorang akan lama_studi (TERLAMBAT) jika kondisi sebagai berikut: Gender = WANITA (nilai atribut lain diabaikan)
Gender = PRIA, $Rerata_SKS > 18$ (nilai atribut lain diabaikan)